



Name: _____
Mr. Tienou-Gustafson & Mr. Bielman
Geometry, Period _____
Due Date: Fri, 20 Mar 2015

CW/HW123 Parallelogram Quiz Review

**Geometry
Homework**

Form A

Whatever you do not complete in class is homework. ~ PARALLELOGRAM QUIZ ON FRIDAY! ~

1) Which of the statements is NOT true?

(Hint: sketch & label each.)

- A. A square is a parallelogram
(This means everything about a parallelogram is true about a square.)
- B. A rhombus is a parallelogram
- C. A square is a rhombus
- D. A rectangle is a rhombus
- E. A square is a rectangle

Explain:

-2) Tell if the statement is always true, sometimes true, or never true.

- A. A rhombus is a parallelogram
- B. A parallelogram is a rhombus
- C. A rectangle is a rhombus
- D. A square is a rhombus
- E. A rhombus is a square

TEXTBOOK - page 520, # 28 & # 32 - 90

(Complete your notebook. Once finished, you can begin the homework below.)

SYNTHESIZE!!

- 3) What do rhombuses and squares have in common?
- 4) How do rhombuses and squares differ?
- 5) What do squares and rectangles have in common?
- 6) How do squares and rectangles differ?
- 7) Why are squares, rhombuses, and rectangles all parallelograms (you need three reasons here)?

Example 3: One diagonal of a rhombus is 30 cm and the other is 16 cm. *Sketch it:*

- a. How long is each side of the rhombus?
- b. Find the perimeter
- c. Find the area.

Example 4: The diagonal of a square is 16 inches.

- a. How long is each side of the square?
- b. Find the perimeter.
- c. Find the area.

8) One diagonal of a rhombus is 18 inches and the other is 80 inches.

- How long is each side of the rhombus?
- Find the perimeter.
- Find the area.

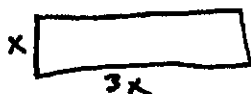
9) The diagonal of a square is 12 cm.



- How long is each side of the square?
- Find the perimeter.
- Find the area.

10)

A rectangle has a width that is 3 times its length. If the area of the rectangle is 300 square centimeters, what is the perimeter of the rectangle, in centimeters?

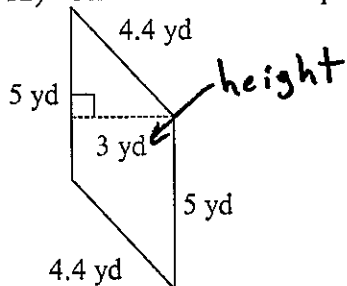


11)

What is the perimeter, in inches, of a square that has an area of 625 square inches?



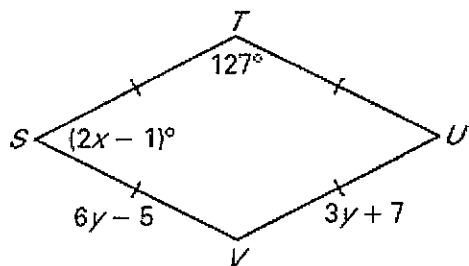
12) Find the area of the parallelogram below.



13) An obtuse angle of a parallelogram has a measure of 150° . If the sides of the parallelogram measure 10 and 12 centimeters, what is the area of the parallelogram?



14) Classify the special quadrilateral. ~~Explain your reasoning.~~ Then find the values of x and y .



15) Classify the special quadrilateral. ~~Explain your reasoning.~~ Then find the values of x and y .

